Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	330	348/294.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:07
S3	59	S1 and ((two or second) near2 (vertical$1 or column$1 or y))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 11:54
S4	5	S1 and ((two or second) near2 (vertical$1 adj1 (scan$4 or circuit$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:36
S5	0	S1 and ((two or second) near2 (vertical$1 adj1 read$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 12:00
S6	25	S1 and (vertical$1 near2 read$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 12:09
S7	52	S1 and ((expos$4 or integrat$3 or accumulat$4) with (row$1 or column$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:21
S8	33	S1 and (((expos$4 or integrat$3 or accumulat$4) with (row$1 or column$1)) same (tim$3 or pulse$1 or interval$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:35
S9	1	S8 and ((two or second) near2 (vertical$1 adj1 (scan$4 or circuit$1 or read$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:25
S10	33	S1 and (((expos$4 or integrat$3 or accumulat$4) with (row$1 or column$1)) same (tim$3 or puls$3 or interval$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:16
S11	10	S1 and (((expos$4 or integrat$3 or accumulat$4) with (row$1 or column$1)) same (simultaneous$2 or rate$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:29
S12	175	348/297.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:50
S13	5	S1 and ((two or second) near2 (vertical$1 adj1 (scan$4 or circuit$1 or read$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:28
S14	45	S12 and (((expos$4 or integrat$3 or accumulat$4) with (row$1 or column$1)) same (tim$3 or puls$3 or interval$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:38

S15	417	348/301-304.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:59
S16	18	S15 and ((two or second) near2 (vertical$1 adj1 (scan$4 or circuit$1 or read$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:59
S17	473	348/307-310.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:59
S18	15	S17 and ((two or second) near2 (vertical$1 adj1 (scan$4 or circuit$1 or read$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:32
S19	124	S17 and (((expos$4 or integrat$3 or accumulat$4) with (row$1 or column$1)) same (tim$3 or puls$3 or interval$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:35
S20	1474	250/208.1.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:49
S21	8	S20 and ((two or second) near2 (vertical$1 adj1 (scan$4 or circuit$1 or read$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:33
S22	1	S21 and (((expos$4 or integrat$3 or accumulat$4) with (row$1 or column$1)) same (tim$3 or puls$3 or interval$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:36
S23	1	S21 and ((expos$4 or integrat$3 or accumulat$4) with (row$1 or column$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:36
S24	5	S21 and ((expos$4 or integrat$3 or accumulat$4) with (line$1 or row$1 or column$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:43
S25	6	("4603355" "4835617" "4974093").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 21:16
S26	865	(SUZUKI-RYOJI UENO-TAKAHISA SHIONO-KOICHI YONEMOTO-KAZUYA).IN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 14:48
S27	704	S26 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:49

S28	28	S27 AND ("348" "250").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:53
S29	47	S26 AND ("348" "250").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 15:27
S30	12	("4237477" | "4841369" | "4910588" | "5324944" | "5345266" | "5631704" | "5721422" | "5991467" | "6037577" | "6166768" | "6181375" | "6466266").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/22 10:02
S31	0	("6798451").URPN.	USPAT	OR	OFF	2005/04/20 15:10
S33	6	US-6424375-$.DID. OR US-6133862-$.DID. OR US-6147846-$.DID. OR US-5471515-$.DID. US-6133862-$.DID. OR US-5841126-$.DID. OR US-5345266-$.DID.	USPAT	OR	OFF	2005/04/20 15:22
S34	5	quiett.xa.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 15:32
S35	1072	S1 S12 S15 S17	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 15:32
S36	0	S35 and ("vu-ngocyen.xa" vu-ngocyen.xp.)	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 15:34
S37	0	S35 and (vu-ngocyen.xa. vu-ngocyen.xp.)	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 15:33
S38	23	S35 and ("vu-ngoc-yen.xa" vu-ngoc-yen.xp.)	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 15:34
S39	9	("5187583" | "5270531" | "5933188" | "6037577" | "6091449" | "6281533" | "6300978" | "6512543" | "6528342").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/20 15:52
S40	330	348/294.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:24
S41	175	348/297.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:24
S42	417	348/301-304.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:24
S43	473	348/307-310.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:24
S44	1072	S40 S41 S42 S43	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 18:24

S45	312	S44 and ((long or short or different or var$3 or varying) near5 (integrat$3 or scan$4 or expos$4 or accumulat$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:42
S46	14	S45 and ((two or second) near2 (vertical$1 adj1 (scan$4 or circuit$1 or read$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:48
S47	750	S44 and ((long or short or period$1 or tim$3 or different or var$3 or varying) near5 (integrat$3 or scan$4 or expos$4 or accumulat$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:42
S48	298	S45 not S46	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 18:45
S49	256	S48 and (cmos$1 or mos$1 or (solid adj1 state))	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 18:46
S50	13	S49 and ((two or second) near2 ((vertical$1 or horizontal$1) adj1 (scan$4 or circuit$1 or read$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 09:44
S51	13	S48 and ((two or second) near2 ((vertical$1 or horizontal$1) adj1 (scan$4 or circuit$1 or read$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:49
S56	330	348/294.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 09:43
S57	175	348/297.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 09:43
S58	417	348/301-304.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 09:43
S59	473	348/307-310.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 09:43
S60	1072	S56 S57 S58 S59	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 09:43
S61	59	S60 and ((two or second) near2 ((vertical$1 or horizontal$1) adj1 (scan$4 or circuit$1 or read$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 10:14
S62	40	S61 and ((driv$3 or select$3) with (pixel$1 or block$1 or cell$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 09:49

S63	9	S61 and ((long short vary$3 varies different) with (accumulat$3 or integrat$3 or expos$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 09:56
S64	62	S60 and ((two or second) near2 ((vertical$1 or horizontal$1) adj1 (driv$3 or scan$4 or circuit$1 or read$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 09:54
S65	42	S64 and ((driv$3 or select$3) with (pixel$1 or block$1 or cell$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 09:55
S66	8	S65 and ((long short vary$3 varies different) with (accumulat$3 or integrat$3 or expos$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 10:10
S67	462	S60 and (first second odd even) near2 (row line column)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 10:01
S68	73	S60 and (((first second odd even) near2 (row line column)) with ((read$3 or accumulat$3 or expos$3 or integrat$3 or scan$4) near2 (different$1 or tim$3 or rat$3 or period$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 10:04
S69	62	S68 and (cmos or cmos or (solid adj1 state))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 10:04
S70	141	S67 and ((long short vary$3 varies different) with (accumulat$3 or integrat$3 or expos$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 10:11
S71	32	S68 and ((long short vary$3 varies different) with (accumulat$3 or integrat$3 or expos$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 10:11
S72	2	S71 and ((two or second) near2 ((vertical$1 or horizontal$1) adj1 (driv$3 scan$4 or circuit$1 or read$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 10:16
S73	12	S68 and ((two or second) near2 ((vertical$1 or horizontal$1) adj1 (driv$3 scan$4 or circuit$1 or read$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 10:16
S74	10	S73 not S72	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 10:41
S75	38	S60 and hitachi$4.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 10:50

S76	72	S60 and (((different$1 or long or short or vari$4 or vary$3 or two or second) near2 (accumulat$3 or integrat$3 or expos$4)) with (row$1 or line$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 10:54
S77	1474	250/208.1.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 10:54
S78	52	S77 and (((different$1 or long or short or vari$4 or vary$3 or two or second) near2 (accumulat$3 or integrat$3 or expos$4)) with (row$1 or line$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:14
S79	102	S76 S78	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 10:57
S80	49	S79 and ((read$3 scan$4 driv$3) with ((two or several or three or more (first and second)) near2 (row$1 column$1 line$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:16
S81	4	S79 and ((read$3 scan$4 driv$3) with ((two or several or three or more (first and second)) near2 (row$1 column$1 line$1) near2 (simultaneous$2 or "same" or together or concurrent$2 or once)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:17
S82	45	S79 and ((read$3 scan$4 driv$3) with ((row$1 column$1 line$1) near3 (simultaneous$2 or "same" or together or concurrent$2 or once)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:19
S83	109	(S77 S60) and (((different$1 or long or short or vari$4 or vary$3 or two or second) near2 (shutter$1 or accumulat$3 or integrat$3 or expos$4)) with (row$1 or line$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:14
S84	54	S83 and ((read$3 scan$4 driv$3) with ((two or several or three or more (first and second)) near2 (row$1 column$1 line$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:16
S85	5	S83 and ((read$3 scan$4 driv$3) with ((two or several or three or more (first and second)) near2 (row$1 column$1 line$1) near2 (simultaneous$2 or "same" or together or concurrent$2 or once)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:18
S86	49	S83 and ((read$3 scan$4 driv$3) with ((row$1 column$1 line$1) near3 (simultaneous$2 or "same" or together or concurrent$2 or once)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:20
S87	44	S86 not S85	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:20
S88	16	S87 not ccd	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 11:33
S89	16	S87 not ccd	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 11:51

S90	28	S87 not S89	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 11:51
S91	2	"4835617".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 13:52
S92	4	("4531156" | "4589027" | "4626916" | "4774588").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/21 13:52
S93	14	("4835617").URPN.	USPAT	OR	OFF	2005/04/21 14:10
S94	0	different with (accumulat$3 adj2 per adj2 row)	USPAT	OR	OFF	2005/04/21 14:11
S95	330	348/294.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 16:07
S96	175	348/297.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 14:14
S97	417	348/301-304.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 14:14
S98	473	348/307-310.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 14:14
S99	1474	250/208.1.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 14:14
S100	1072	S95 S96 S97 S98	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 14:14
S101	2295	S100 S99	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 14:14
S102	648	S101 and ((row line) with (integrat$3 shutter$1 accumlat$3 expos$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:57
S103	34	S101 and ((row line) with ((different long short "1/60" "1/250" "1/30") near3 (integrat$3 shutter$1 accumlat$3 expos$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 10:59
S104	14	("5416611").URPN.	USPAT	OR	OFF	2005/04/21 14:56
S105	13	("4974093").URPN.	USPAT	OR	OFF	2005/04/21 15:06
S106	648	S101 and ((row$1 line$1) with (integrat$3 shutter$1 accumlat$3 expos$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:28

S107	664	S101 and ((row column line) with (integrat$3 shutter$1 accumlat$3 expos$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:30
S108	44	S101 and (((row column line) with (integrat$3 shutter$1 accumlat$3 expos$3) near5 (different vary$3 varies variable$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:31
S109	56	S101 and (((row column line) with (integrat$3 shutter$1 accumulat$3 expos$3) near5 (different vary$3 varies variable$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:31
S110	61	S95 and (cmos$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:52
S111	213	S95 and (cmos$1 or mos$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 16:05
S112	149	S95 and (cmos$1 or mos)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:55
S113	997	S101 and (cmos mos x-y)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:56
S114	813	S113 and (integrat$3 shutter$1 accumlat$3 expos$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:57
S115	883	S113 and (integrat$3 shutter$1 accumulat$3 expos$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:57
S116	274	S113 and ((different long$1 short$1) with (integrat$3 shutter$1 accumulat$3 expos$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:59
S117	28	S113 and ((column$1 row$1 line$1) with ((different long$1 short$1) near3 (integrat$3 shutter$1 accumulat$3 expos$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 16:06
S118	217	S95 and (cmos$1 or mos$1 or x-y)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 16:05
S119	531	(cmos x-y) and ((column$1 row$1 line$1) with ((different long$1 short$1) near3 (integrat$3 shutter$1 accumulat$3 expos$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 16:06

S120	216	S119 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 16:12
S121	197	S120 not S101	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 18:56
S124	5	("6429898" "6122008" "6141049" "5463491" "6008486").pn.	USPAT	OR	ON	2005/04/21 18:58
S135	2295	S134 S133	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/22 10:21
S143	395689	((accumulat$4 integrat$4 expos$4 shutter$1) near5 (time period long short))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:05
S144	1997	S143 and ((read$3 near2 (line row column)) with ("same" simultaneous$2 concurrent$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:06
S149	3536	((accumulat$4 integrat$4 expos$4 shutter$1) near5 (time period long short) near3 pixel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:05
S150	1431	((accumulat$4 integrat$4 expos$4 shutter$1) near3 (different vary variable period long short) near3 pixel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:25
S151	108	S150 and ((read$3 near2 (line row column)) with ("same" simultaneous$2 concurrent$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:27
S152	56	S151 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:26
S153	60	((accumulat$4 integrat$4 expos$4 shutter$1) with (long and short) near3 pixel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:26
S154	99	((accumulat$4 integrat$4 expos$4 shutter$1) with (long and short) near5 pixel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:26
S155	59	S154 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 12:53
S156	2	S155 and ((read$3 near2 (line row column)) with ("same" simultaneous$2 concurrent$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:55

S157	496	fossum.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 12:26
S158	330	S157 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 13:57
S164	39	S158 and (transistor$1 near2 (read$3 amplify$3 select$3 reset$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 12:37
S165	7	S158 and (transistor$1 near2 amplify$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 12:31
S166	0	S158 and (transistor$1 near2 amplifer$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 12:30
S167	0	S158 and (amplify$3 adj2 transistor$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 12:31
S168	2	S155 and (amplify$3 adj2 transistor$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 12:31
S169	0	S158 and (transistor$1 near2 (read$3 and amplify$3 and select$3 and reset$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 12:37
S170	1	S125 and (transistor$1 near2 (read$3 and amplify$3 and select$3 and reset$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 12:41
S173	5477	merrill.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 13:26
S179	154	(transistor$1 near2 (read$3 and (amplification or amplify$3) and select$3 and reset$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 13:57
S180	61	S179 and ((transistor$1 near2 read$3) with (fd floating storage capacitor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 13:57
S181	17	S180 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 14:32

S182	281163	sony.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 14:32
S183	79	S182 and S135	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 15:06
S187	4	("4809075" | "4942474" | "5081536" | "5262871").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/22 15:34
S188	497	fossum.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 12:53
S189	330	S188 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:00
S190	5	S189 and (camera and processor and (delay$3 or "s/h"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 12:58
S191	25234	(read$3 or (read adj1 out)) adj select$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 12:59
S192	166	(read$3 or (read adj1 out)) adj select$4 adj transistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:11
S193	16	S192 same (photoelectric photodiode sensor cmos)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:31
S194	3	S193 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:03
S195	89	S192 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:06
S196	15	S192 same pixel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:06
S197	2	S196 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:13
S198	2257	(read$3 or (read adj1 out)) adj transistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:12

S199	121	((read$3 or (read adj1 out)) adj transistor) same ((read$3 or (read adj1 out)) near2 select$4 near2 transistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:26
S200	35	S199 same (pixel photoelectric photodiode sensor cmos)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:13
S201	13	S200 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:29
S202	13	((buffer or source or read$3 or (read adj1 out)) adj transistor) same ((vertical or row or read$3 or (read adj1 out)) near2 select$4 near2 transistor) same (output near2 (read$3 or (read adj1 out) and transistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:28
S203	4	S202 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:33
S204	1018	((m5 or fifth or five) near2 transistor) same (pixel photoelectric photodiode sensor cmos)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:32
S205	600	((m5 or fifth or five) near2 transistor) with (pixel photoelectric photodiode sensor cmos)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 17:03
S206	267	S205 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 17:03
S208	11	pixel same (((read$3 or transfer$4) near3 transistor) near5 (capacit$4 or stor$3) with (select$3 near2 (signal charge)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 17:28
S209	2	S208 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 17:31
S210	13	pixel same (((read$3 or transfer$4) near3 transistor) near5 (capacit$4 or stor$3) near5 (amplify$3 or amplification))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 17:36
S211	3	S210 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 17:31
S212	4	("4380755" | "4821108" | "5668631" | "5694495").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/25 17:32
S213	0	("6631217").URPN.	USPAT	OR	OFF	2005/04/25 17:33
S214	9	("5694495").URPN.	USPAT	OR	OFF	2005/04/25 17:34

S215	19	("20010066402" | "20020154231" | "5241575" | "5289286" | "5335008" | "5488415" | "5576761" | "5619262" | "5917547" | "5933190" | "6011251" | "6054704" | "6111242" | "6111245" | "6118482" | "6130713" | "6201572" | "6239839" | "6355965" | "6512544").PN. .	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/25 17:38
S216	3	"6600160".pn.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/26 11:01
S217	497	fossum.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 11:55
S218	330	S217 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 11:56
S219	28	yadid-pecht.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 11:56
S220	8	("6115065" "4835617" "5471515" "6512544" "6600160" "6008486" "6549235" "6798451").pn.	USPAT	OR	OFF	2005/04/27 15:40
S224	330	348/294.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:04
S225	58	S224 and ((horizontal and vertical) near2 (register scan$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:06
S226	15	S225 and (cmos x-y)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:07
S227	53	("3866067" | "3934161" | "3988619" | "4363963" | "4473836" | "4626915" | "4654714" | "4680489" | "4734776" | "4742238" | "4809075" | "4839735" | "4845553" | "4875091" | "4901129" | "4942473" | "5014107" | "5021853" | "5055418" | "5117292" | "5161024" | "5241575" | "5276521" | "5289023" | "5317174" | "5335015" | "5341008" | "5396289" | "5414464" | "5414683" | "5424223" | "5428390" | "5471245" | "5541402" | "5541654" | "5547881" | "5572074" | "5576763" | "5589423" | "5625210" | "5631704" | "5705441" | "5712682" | "5729287" | "5739562" | "5742058" | "5892541" | "5903021" | "6040570" | "6043525" | "6175383" | "6246436" | "6369853").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/27 16:31
S228	330	348/294.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:43
S229	175	348/297.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:43
S230	418	348/301-304.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:43
S231	473	348/307-310.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:43

S232	1073	S228 S229 S230 S231	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/27 16:43
S233	303	S232 and (transistor with ((vertical and horizontal) (row and column)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 17:07
S234	277	S232 and (transistor with ((select$4 switch$3) and ((vertical and horizontal) (row and column))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:47
S235	186	S232 and ((pixel photodiode photoelectric) same (transistor with ((select$4 switch$3) and ((vertical and horizontal) (row and column)))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:50
S236	96	S235 and (cmos x-y)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:50
S237	346	S232 and ((control or select or choose or mode) near2 (read$3 transfer$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 18:45
S238	480	S232 and ((control$4 or select$4 or choos$3 or mode) near2 (read$3 transfer$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 18:48
S239	302	S232 and ((pixel photodiode photoelectric$1) same ((control$4 or select$4 or choos$3 or mode) near2 (read$3 transfer$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 17:12
S240	84	S232 and ((pixel photodiode photoelectric$1) same (transistor with ((control$4 or select$4 or choos$3 or mode) near2 (read$3 transfer$3))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 17:14
S241	12	S232 and (((transfer read$3 follower) near2 (capacitor stor$3 fd floating diffusion)) same (transistor with ((control$4 or select$4 or choos$3 or mode) near2 (read$3 transfer$3))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 17:16
S242	8	("20010012070" | "4556910" | "4942474" | "5471515" | "5793423" | "5926214" | "5955753" | "6239839").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/27 17:26
S243	0	("6801253").URPN.	USPAT	OR	OFF	2005/04/27 17:28
S244	9	("5187583" | "5270531" | "5933188" | "6037577" | "6091449" | "6281533" | "6300978" | "6512543" | "6528342").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/27 18:32
S245	7	("5187583").URPN.	USPAT	OR	OFF	2005/04/27 18:37
S246	632	S232 and ((control$4 or select$4 or choos$3) near2 (read$3 transfer$3 row line))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 18:49
S247	26	S232 and (((control$4 or select$4 or choos$3) near2 (read$3 transfer$3 row line)) same ((amplify$3 amplificat$3) near2 transistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 18:56

S248	· 7	S232 and (((control$4 or select$4 or choos$3) near2 (read$3 transfer$3 row line)) same ((amplify$3 amplificat$3) near2 transistor) near5 (capacitor fd diffusion stor$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:06
S249	5	S232 and (((control$4 or select$4 or choos$3) near2 (read$3 transfer$3 row line)) with((amplify$3 amplificat$3) near2 transistor) near5 (capacitor fd diffusion stor$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:36
S250	6	S232 and (((control$4 or select$4 or choos$3) near2 (row line)) adj5 ((amplify$3 amplificat$3) near2 transistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:34
S251	112	S232 and ((capacitor fd diffusion stor$3) adj5 ((control$4 or select$4 or choos$3) near2 (read$3 transfer$3 row line)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:13
S252	24	S232 and ((capacitor fd diffusion stor$3) adj5 ((amplify$3 amplificat$3) near2 transistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:42
S253	13	S232 and (((transfer$4 read$3 shutter accumulat$4) near2 transistor) adj5 ((control$4 or select$4 or choos$3) near2 (read$3 transfer$4 row line)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:43
S254	1	S252 and S253	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:43
S255	119	(pixel photodiode photoelectric) same ((capacitor fd diffusion stor$3) adj5 ((amplify$3 amplificat$3) near2 transistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:49
S256	195	(pixel photodiode photoelectric) same (((transfer$4 read$3 shutter accumulat$4) near2 transistor) adj5 ((control$4 or select$4 or choos$3) near2 (read$3 transfer$4 row line)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:50
S257	11	S255 and S256	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:50
S258	· 1	S257 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:51
S259	94	(pixel photodiode photoelectric) with ((capacitor fd diffusion stor$3) adj5 ((amplify$3 amplificat$3) near2 transistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:49
S260	283	(pixel photodiode photoelectric) same ((capacitor fd diffusion stor$3) with ((amplify$3 amplificat$3) near2 transistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:49

S261	527	(pixel photodiode photoelectric) same (((transfer$4 read$3 shutter accumulat$4) near2 transistor) with ((control$4 or select$4 or choos$3) near2 (read$3 transfer$4 row line)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:50
S262	73	S260 and S261	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:50
S263	19	S262 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:51
S264	3	"6037577".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 21:19
S265	2	"6798451".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 21:21
S266	2	"6801253".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 21:21
S267	11	("6801256" "6674470" "6037577" "4942474").pn.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/28 09:38
S268	4	("6801256" "6674470" "6037577" "4942474").pn.	USPAT	OR	OFF	2005/04/28 09:38
S269	330	348/294.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/28 10:46
S270	175	348/297.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/28 10:46
S271	418	348/301-304.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/28 10:46
S272	473	348/307-310.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/28 10:46
S273	1073	S269 S270 S271 S272	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/28 10:46
S274	1	S273 and so.in.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/28 10:46
S275	12	("4839735" | "5401952" | "5471515" | "5539460" | "5598210" | "5898168" | "5900623" | "5929908" | "5962844" | "6141050" | "6271880" | "6369853").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/28 10:56

S276	47	S273 and (((horizontal and vertical) near2 select$3) with (column line y))	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/28 10:58
S277	58	S273 and (((horizontal and vertical) near2 select$3) with (column line y))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/28 10:58
S278	20	("4041519" | "4242706" | "4547806" | "4609824" | "4621291" | "4628364" | "4679068" | "5001359" | "5345266" | "5543838" | "5818070" | "5831258" | "5898168" | "5973311" | "5978025" | "6037577" | "6320617" | "6320618" | "6528852" | "6680223").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/28 10:59
S279	1	"5471515".pn. and (reset$4 same (stor$3 or capacitor$1))	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/29 10:51
S280	1	"5471515".pn. and (reset$4 same (source adj1 follower))	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/29 10:52